

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (previously presented) An end face sensor device, comprising:

a linear body (2001), the linear body having a conductive polymer center electrode (2007) with an outer circumference of the center electrode coated with an insulating film made of polymer (2008); and

a receiving part for receiving information from a subject and outputting the information as another information formed on an end face of the linear body.

2. (currently amended) An end face sensor device as claimed in claim 1, characterized in that the receiving part is a light sensor comprises an active portion made of a conductive polymer.

3. (currently amended) An end face sensor device as claimed in claim [[2]] 1, ~~characterized in that~~ wherein,
the receiving part is a light sensor, and

the light sensor is any of a photodiode, a phototransistor, a photo IC, a photo thyristor, a photoconductive

element, a pyroelectric element, a color sensor, a solid-state image sensor, an element for position detection, and a solar battery.

4. (withdrawn) An end face sensor device as claimed in claim 1, characterized in that the receiving part is a temperature sensor.

5. (withdrawn) An end face sensor device as claimed in claim 1, characterized in that the receiving part is a humidity sensor.

6. (withdrawn) An end face sensor device as claimed in claim 1, characterized in that the receiving part is an ultrasonic sensor.

7. (withdrawn) An end face sensor device as claimed in claim 1, characterized in that the receiving part is a pressure sensor.

8. (withdrawn, currently amended) An end face sensor device as in claim ~~[[1]]~~ 3, characterized in that a part or all of the receiving part is formed ~~using~~ of a polymer.

9. (withdrawn) An end face sensor device as claimed in claim 8, characterized in that a distal end of one molecule of the polymer of the receiving part is modified by an ion group.

10. (withdrawn, currently amended) An end face sensor device as in claim [[1]] 3, characterized in that the linear body is a linear element in which a circuit element is formed continuously or intermittently in a longitudinal direction.

11. (withdrawn, currently amended) An end face sensor device as in claim [[1]] 3, characterized by being a linear element in which a cross section having plural regions for forming a circuit is formed continuously or intermittently in a longitudinal direction.

12-26. (canceled)

27. (previously presented) An end face sensor device as in claim 1, characterized in that said device has flexibility or bendability along a length of the linear body.

28. (withdrawn, currently amended) An end face sensor device as claimed in claim 8, characterized in that the polymer of the receiving part is a conductive polymer coated with a transparent electrode (2006) extending along a full length of the

linear body, the transparent electrode defining a final exterior surface of the length of the linear body exposed to the atmosphere.

29. (currently amended) An end face sensor device as claimed in claim 27, characterized in that the receiving part is a light sensor coated with a transparent electrode (2006) extending along a length of the linear body, the transparent electrode defining a final exterior surface of the length of the linear body exposed to the atmosphere.

30. (previously presented) An end face sensor device as claimed in claim 29, characterized in that the light sensor is any of a photodiode, a phototransistor, a photo IC, a photo thyristor, a photoconductive element, a pyroelectric element, a color sensor, a solid-state image sensor, an element for position detection, and a solar battery.

31. (withdrawn) An end face sensor device as claimed in claim 27, characterized in that the receiving part is a temperature sensor.

32. (withdrawn) An end face sensor device as claimed in claim 27, characterized in that the receiving part is a humidity sensor.

33. (withdrawn) An end face sensor device as claimed in claim 27, characterized in that the receiving part is an ultrasonic sensor.

34. (withdrawn) An end face sensor device as claimed in claim 27, characterized in that the receiving part is a pressure sensor.

35. (withdrawn, currently amended) An end face sensor device as in claim 27, characterized in that a part or all of the receiving part is formed ~~using~~ of a conductive polymer.

36. (withdrawn) An end face sensor device as claimed in claim 35, characterized in that one molecule of the polymer is ion modified.

37. (withdrawn) An end face sensor device as in claim 27, characterized in that the linear body is a linear element in which a circuit element is formed continuously or intermittently in a longitudinal direction.

38. (withdrawn) An end face sensor device as in claim 27, characterized by being a linear element in which a cross section having plural regions for forming a circuit is formed continuously or intermittently in a longitudinal direction.

39. (withdrawn, currently amended) An end face sensor device as recited by claim 1, wherein, comprising:

~~a linear body (2001), the linear body having a conductive polymer center electrode (2007) with an outer circumference of the center electrode coated with an insulating film (2008);~~

~~a light sensor receiving part for receiving information from a subject and outputting the information as another information formed on an end face of the linear body,~~

the receiving part is a light sensor comprising an n-type semiconductor layer (2004) formed on the end face of the linear body, with a p-type semiconductor layer (2003) formed on the n-type semiconductor layer, the n-type and p-type layers together forming a pn junction of the light sensor receiving part; and

a transparent electrode (2006) coating the p-type semiconductor layer, the end face of the linear body, and the insulating film, the transparent electrode defining a final exterior surface of a full length of the linear body exposed to the atmosphere.

40-41. (canceled)